

Title (en)
Tunable capacitor

Title (de)
Einstellbarer Kondensator

Title (fr)
Condensateur accordable

Publication
EP 2651032 A2 20131016 (EN)

Application
EP 13161526 A 20130328

Priority
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Abstract (en)
Disclosed is a tunable capacitor. The tunable capacitor according to a first embodiment of the present invention includes: a variable capacitor unit placed between a first terminal and a second terminal; and a bypass switch which on/off controls a bypass connection between the first terminal and the second terminal, wherein the variable capacitor unit and the bypass switch are integrated on one semiconductor die or on one module. The tunable capacitor according to a second embodiment of the present invention includes: a variable capacitor unit placed between a first terminal and a second terminal; an impedance tuner placed between a ground terminal and either the first terminal or the second terminal; and a tuning switch which on/off controls the connection between the variable capacitor unit and an impedance tuner, wherein the variable capacitor unit, the impedance tuner and the tuning switch are integrated on one semiconductor die or on one module.

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Cited by
EP4027526A1; EP2819308A1; US9647630B2; EP3582087A1; EP4024172A1; US10866657B2; US11327584B2; US11669176B2

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